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## COLLECTIONS OF RECENT MAMMALS OF THE WORLD, EXCLUSIVE OF CANADA AND THE UNITED STATES

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### ABSTRACT

A survey of the Recent mammal collections outside of Canada and the United States revealed the existence of 321 collections with more than 50 specimens. These collections are located in 76 countries and hold 2,358,356 specimens. Fifty collections holding more than 10,000 specimens were located. These 50 collections hold 81.3% of the specimens of Recent mammals in collections outside of Canada and the United States.

### INTRODUCTION

Recently, Choate and Genoways (1975) completed the fourth survey of the collections of Recent mammals in North America (Howell, 1923; Doutt et al., 1945; Anderson et al., 1963). These surveys have proven to be useful in locating specimen-based research resources and have documented the development of these resources. Because no survey has ever been made on a worldwide basis, we believed that it would be useful to attempt such a survey. Our main concern was to learn what and where are the specimen-based systematic resources of mammalogy around the world. Because of the very recent survey for Canada and the United States, we did not feel that it was necessary for us to include them in our work.

Submitted 26 September 1980.

Table 1.—*Collections from outside Canada and the United States containing 10,000 or more specimens of Recent mammals.*

Institution	Number of specimens
British Museum (Natural History), London, England	300,000
Zoological Museum of Moscow University, Moscow, USSR	150,000
Mammal Research Institute, Polish Academy of Sciences, Białowieza, Poland	145,000
Zoological Institute, Leningrad, USSR	100,000
Zoologische Staatssammlung München, München, Federal Republic of Germany	100,000
Museu Nacional, Rio de Janeiro, Brazil	85,000
Rijksmuseum van Natuurlijke Histoire, Leiden, The Netherlands	80,000
National Museum of Zimbabwe, Bulawayo, Zimbabwe	67,000
Forschungsinstitut und Natur-Museum Senckenberg, Frankfurt am Main, Federal Republic of Germany	55,000
Zoology Museum of the Institute of Plant and Animal Ecology, Sverdlovsk, USSR	48,404
Koninklijk Museum voor Midden-Afrika, Tervuren, Belgium	47,500
Naturhistorisches Museum Wien, Vienna, Austria	40,000
Zoological Museum of the University, Copenhagen, Denmark	35,000
Institute of Vertebrate Zoology, Czechoslovak Academy of Sciences, Brno, Czechoslovakia	30,000
Staatliches Museum für Naturkunde Stuttgart, Stuttgart Federal Republic of Germany	30,000
Zoologisches Forschungsinstitut und Museum Alexander Koenig, Bonn, Federal Republic of Germany	30,000
Transvaal Museum, Pretoria, Republic of South Africa	28,000
Institut Royal des Sciences Naturelles de Belgique, Brussels, Belgium	26,000
Kaffrarian Museum, King William's Town, Republic of South Africa	25,000
Muséum d'Histoire Naturelle, Geneve, Switzerland	25,000
National Museum, Praha, Czechoslovakia	24,500
Zoological Museum, Amsterdam, The Netherlands	21,000
National Science Museum, Tokyo, Japan	20,214
Australian National Wildlife Collection, Lyneham, Australia	20,000
National Museum of Victoria, Melbourne, Australia	20,000
National Zoological Collection of India, Calcutta, India	20,000
Staatliches Museum für Tierkunde, Dresden, Democratic Republic of Germany	20,000
Zoological Museum, Oulu, Finland	20,000
Lunds Universitets Zoologiska Museum, Lund, Sweden	18,700
Bombay Natural History Society, Bombay, India	18,000
Western Australia Museum, Perth, Australia	18,000
Universidad Nacional Autónoma de México, México, México	18,000
Museo Argentino de Ciencias Naturales "Bernardino Rivadavia," Buenos Aires, Argentina	17,100
Institute of Systematic Zoology, Praha, Czechoslovakia	16,000
Laboratoire d'Anatomie Comparée, Museum National d'Histoire Naturelle, Paris, France	16,000

Table 1.—Continued.

Institution	Number of specimens
Museu de Zoologia, São Paulo, Brazil	15,764
Department of Vertebrate Taxonomy and Faunology, Peking	
Institute of Zoology, Peking, People's Republic of China	15,000
The Australian Museum, Sydney, Australia	14,000
Queensland Museum, Fortitude Valley, Australia	13,600
Escuela Nacional de Ciencias Biológicas, México, México	13,500
Museum Zoologicum Bogoriense, Bogor, Indonesia	13,000
Zoological Museum, Helsinki, Finland	13,000
Zoological Museum, Oslo, Norway	12,000
Zoological Reference Collection, Singapore, Singapore	12,000
Laboratoire de Zoologie, Muséum National d'Histoire Naturelle, Paris, France	10,000
Landessammlungen für Naturkunde, Karlsruhe, Federal Republic of Germany	10,000
Museo Zoológico de "La Specola," Firenze, Italy	10,000
Naturhistorisches Museum, Bern, Switzerland	10,000
South Australian Museum, Adelaide, Australia	10,000
Zoologisches Institut und Zoologisches Museum, Hamburg, Federal Republic of Germany	10,000
Total	1,916,282

In order to assess the location and holdings of collections of mammals, we prepared the following questionnaire:

1. What is the formal name (if any), address, and standard abbreviation (if any) of your private or institutional collection?
2. What is the name and address of the person directly responsible for the collection?
3. Approximately how many specimens of Recent (not fossil) mammals were in the collection as of 1 January 1978?
4. How many holotypes are in the collection? Has a catalogue or list of those types been published? If so, please give citation.
5. What geographic areas are best represented in the collection?
6. What systematic groups are best represented in the collection?
7. Does the collection include specimens formerly included in other major private or institutional collections which have been merged with your collection? If so, please indicate the name of these collections.

Copies of the questionnaire were mailed to curators or directors of all known or suspected collections based upon our own experience and listings in such books as *Directory of the Natural Sciences Museums of the World* (Muzeelor, 1971) and *Museums of the World* (1975). A total of 740 questionnaires was mailed and second questionnaires were sent when no reply was received within six months. We received 413 replies, indicating the existence of 321 collections of 50 or more mammals and 26 of fewer than 50 mammals outside of Canada

and the United States. Replies were received from collections in 76 countries. We are well aware that the results of our survey do not give a total representation of the collections from around the world. Our efforts suffer from the same problem as any survey in that we can record only the information that is returned to us. However, we believe that the current survey is a significant step in locating the specimen-based resources of mammalogy. Rather than being an end to this effort we hope that similar surveys will be conducted in the future.

Data compiled from returned questionnaires indicated that 2,358,356 specimens of mammals are held by collections outside of Canada and the United States (specimens from owl pellets not included). These, together with the 2,521,342 specimens held by collections in Canada and the United States (Choate and Genoways, 1975) give a total of 4,879,698 specimens of mammals held by the research collections of the world. Of the specimens of mammals outside of Canada and the United States, 81.3 percent are held in 50 collections of 10,000 or more specimens (Table 1). These collections together with the 37 from Canada and the United States gives a total of 87 collections of mammals that hold more than 10,000 specimens. These 87 collections are located in 29 countries.

In the list below, data are listed as follows: name of collection (including self assigned acronym); address of collection; number of specimens in collection; number of holotypes represented; geographic areas best represented; systematic groups best represented; if the collection includes material held previously by another collection; name of person in charge of the collection. The following list only includes those collections of 50 or more specimens.

#### ARGENTINA

**Centro Nacional Patagonico (CNP)**, 28 de Julio 28, 9120 Puerto Madryn, Chubut. 127 specimens; Patagonia; Rodentia, Carnivora, Pinnipedia, Camelidae. Persons in charge are José Luis Garrido and José Alejandro Scolaro.

**Colección de Mamíferos de Elio Massoia y Flia**, Teniente 1º Fernández 3405, 1712 Castelar, Pcia. Buenos Aires. 6000 specimens; 6 holotypes; Argentina; Marsupialia, Chiroptera, Rodentia, Carnivora. Person in charge is Elio Massoia.

**Fundación Miguel Lillo (FML)**, Miguel Lillo 205, 4000 Tucumán. 2500 specimens; northeastern Argentina; Marsupialia, Chiroptera, Edentata, Rodentia, Mustelidae. In addition, includes the "Rusconi" collection of 2500 skulls. Person in charge is C. C. Olrog.

**Instituto Argentino de Investigaciones de las Zonas Aridas (IADIZA)**, Casilla de Correo 507, 5500 Mendoza. 3660 specimens; 3 holotypes;

central and western Argentina; Rodentia. Person in charge is Prof. Julio R. Contreras.

**Museo Argentino de Ciencias Naturales "Bernardino Rivadavia,"** Av. Angel Gallardo 470, 1405—Buenos Aires. 17,100 specimens; 12 holotypes; Argentina, Bolivia, Paraguay; Chiroptera, Rodentia, Edentata, Cetacea. Person in charge is Dr. Jorge A. Crespo.

**Museo de Ciencias Naturales y Antropológicas "Juan Cornelio Moyano,"** Subsuelo Plaza Independencia, Ciudad, 5500—Mendoza. 597 specimens; 42 holotypes; South America; general species representation. Person in charge is Profesora Ketty Böhm de Saurina, Aristóbulo del Valle 499.

**Museo de Ciencias Naturales y Centro de Investigación,** Instituto Superior del Profesorado Antonio R. de Montoya, San Luis 384, 3300 Posadas, Misiones. 50 specimens; subtropical Argentina. Person in charge is Profesora Nélida M. Hienrich.

**Museo de Entre Ríos de Ciencias Naturales y Antropológicas,** Casilla de Correo No. 71, 3100 Paraná, Entre Ríos. 100 specimens; Argentina. Person in charge is Prof. Juana María Barzanti.

**Museo de Historia Natural de San Rafael,** Mendoza. 150 specimens; Mendoza and Chaco, Argentina; Rodentia, Felidae. Person in charge is Dr. Humberto A. Lagiglia.

**Museo Municipal de Ciencias Naturales "Lorenzo Scaglia"** (MMP), CC 1207, Correo Central, 7600 Mar de Plata. 1500 specimens; southeastern portion of the Province of Buenos Aires, Argentina; Marsupialia, Rodentia. Person in charge is Lic. Carlos Alberto Velázquez.

**Museo Provincial,** Calle Pellegrini 180, 6300 Santa Rosa, La Pampa. 60 specimens; Patagonia; Felidae. Person in charge is Reynaldo Orrego Aravena.

**Museo Provincial de Ciencias Naturales "Florentino Ameghino,"** Moreno 2557, 3000 Santa Fe. 260 specimens; Argentina; Primates, Edentata, Rodentia, Carnivora, Artiodactyla. Person in charge is Lic. Carlos A. Virasoro.

## AUSTRALIA

**Arthur Rylah Institute for Environmental Research,** Fisheries and Wildlife Division, Ministry for Conservation, P.O. Box 137, Heidelberg, Victoria 3087. 700 specimens; Victoria and adjacent waters; Pinnipedia. Person in charge is Mr. Robert M. Warneke.

**Australian National Wildlife Collection (ANWC),** C.S.I.R.O., Division of Wildlife Research, P.O. Box 84, Lyneham, A.C.T. 2602. 20,000 specimens; 4 holotypes; Australia, New Guinea; Monotremata, Marsupialia, Chiroptera, Rodentia. Person in charge is Dr. J. H. Calaby.

**Central Australian Museum (CAM),** Territory Parks and Wildlife

Commission, P.O. Box 1046, Alice Springs, Northern Territory 5750. 750 specimens; 1 holotype; arid zone of central Australia; Marsupialia, Chiroptera, Rodentia. Person in charge is Dr. K. A. Johnson.

**D. C. D. Happold Collection of Mammals**, Department of Zoology, Australian National University, Canberra, A.C.T. 2000. 1000 specimens; Nigeria; Chiroptera, Rodentia. Person in charge is Dr. D. C. D. Happold.

**Monash University**, Museum, Department of Zoology, Clayton, Victoria. 750 specimens; southeastern Australia; Monotremata, Marsupialia, Rodentia. Person in charge is A. K. Lee.

**National Museum of Victoria**, 285-321 Russell Street, Melbourne, Victoria 3000. 20,000 specimens; 25 holotypes; Australia; Monotremata, Marsupialia, Chiroptera, Rodentia. Includes material formerly held in the following collections: Arthur Rylah Research Institute, Fisheries and Wildlife Division, Ministry for Conservation; Monash University; Melbourne University. Person in charge is Miss Joan M. Dixon.

**Queensland Museum (QM)**, Gregory Terrace, Fortitude Valley, Queensland 4006. 13,600 specimens; 20 holotypes; Queensland; Marsupialia. Person in charge is R. E. Molnar.

**Queen Victoria Museum and Art Gallery**, Wellington Street, Launceston, Tasmania 7250. 2300 specimens; Tasmania; Dasyuridae, Vespertilionidae, Muridae. Person in charge is Mr. Robert G. H. Green.

**South Australian Museum**, North Terrace, Adelaide, South Australia 5000. 10,000 specimens; 15 holotypes; southern and central Australia; Marsupialia, Chiroptera, Rodentia. Person in charge is Peter F. Aitkens.

**Taronga Zoo**, Zoological Parks Board of New South Wales, P.O. Box 20, Mosman, New South Wales 2088. 810 specimens; Australasia; Monotremata, Marsupialia. Person in charge is Mr. J. L. Throp.

**Tasmanian Museum and Art Gallery**, GPO Box 1164 M, Hobart, Tasmania 7001. 1200 specimens; Tasmania; Phalangeriidae, Macropodidae. Person in charge is A. P. Andrews.

**The Australian Museum**, 6-8, College Street, Sydney, New South Wales 2000. 14,000 specimens; 118 holotypes; Australia, New Guinea; Monotremata, Marsupialia, Chiroptera, Rodentia, Pinnipedia. Person in charge is Basil J. Marlow.

**The MacLeay Museum**, The University of Sydney, Sydney, New South Wales 2006. 1000 specimens; 8 holotypes; Australia, New Guinea; Marsupialia, Pteropodidae. Includes the MacLeay Collections. Person in charge is Dr. P. J. Stanbury.

**Western Australia Museum (WAM)**, Francis Street, Perth, Western Australia 6000. 18,000 specimens; 7 holotypes; Western Australia; Marsupialia, Chiroptera, Rodentia. Person in charge is Dr. D. J. Kitchener.

## AUSTRIA

**Landesmuseum Joanneum**, Raubergasse 10, A-8010 Graz. 1000 specimens (plus about 1000 fragmentary skulls); Rodentia, Carnivora. Person in charge is Dr. Erich Kreissl.

**Landesmuseum für Kärnten**, Museumgasse 2, A-9010 Klagenfurt. 100 specimens; Austria; Carnivora. Person in charge is Dr. Hans Sampl.

**Naturhistorisches Museum der Benediktiner-Abtei Admont**, A-8911 Admont. 94 species and subspecies are represented in collection; Europe, India, Africa; general taxonomic representation. Includes material formerly belonging to Schläuter, Baron Brenner, Dr. Holub, and Hofmuseum Dresden. Person in charge is Prof. Dr. rer. silv. habil. Günter Morges.

**Naturhistorisches Museum Wien** (NMW), Postfach 417, A-1014 Wien. 40,000 specimens; 200 holotypes; central and southeastern Europe, Turkey and Near East, eastern Zaire, Indonesia, Brazil (Natterer's historic collection); general taxonomic representation. Includes the former private collections of L. Adametz (primitive breeds of domestic ungulates), K. Bauer, F. Spitzemberger, and O. Wettstein. Person in charge is Dr. Friederike Spitzemberger.

**Oberösterreichisches Landesmuseum**, Abteilung Zoologie, Museumstrasse 14, A-4001 Linz. 2600 specimens; Austria; Insectivora, Rodentia, Carnivora. Person in charge is Dr. Gertrud Mayer.

**Sternwarte Kremsmünster Naturhistorische Sammlungen**, A-4550 Kremsmünster. 200 specimens; Middle Europe; Rodentia, Carnivora. Person in charge is Dr. P. Jakob Krinzingen.

**Vorarlberger Naturschau**, Marktstrasse 33, A-6850 Dornbirn. 157 specimens; Austrian Vorarlberg. Person in charge is Dir. Dr. Walter Krieg.

## BELGIUM

**Institut Royal des Sciences Naturelles de Belgique** (IRSB), 31 rue Vautier, B-1040 Brussels. 26,000 specimens; 11 holotypes; Africa; general taxonomic representation. Includes the collection of de Selys Longchamps. Person in charge is Xavier Misonne.

**Koninklijk Museum voor Midden-Afrika** (KMMA), Steenweg op Leuven, B-1980 Tervuren. 47,500 specimens; Africa south of Sahara; general taxonomic representation for geographic area covered. Includes material formerly in the collections of the National Parcs of Zaire and Ruanda. Persons in charge are D. Meirte and D. Thys van den Audenaerde.

**Koninklijke Maatschappij voor Dierkunde van Antwerpen**, Koningin Astridplein 26, B-2000 Antwerpen. 350 specimens; Europe. Person in charge is G. Van Steenbergen.

**Laboratorium voor Algemende Dierkunde**, R.U.C., Groenenborgerlaan 171, B-2020 Antwerpen. 6000 specimens (plus 35,000 skulls from owl pellets); Belgium; Insectivora, Rodentia. Person in charge is Dr. Erik van der Straeten.

**Musée Provincial de la Foret**, 9 Route Merveilleuse, B-5000 Namur. 80 specimens; southern Belgium; Cervidae. Person in charge is Ir. Roger L. A. Damoiseau.

**Musée de Zoologie de l'Université de Liège**, quai Ed. Van Beneden 22, B-4020 Liège. 1000 specimens; 1 holotype; Holarctic; Cetacea. Person in charge is Dr. Noël Magis.

#### BRAZIL

**Coleção Adriano L. Peracchi**, Instituto de Biologia, Universidade Rural, 23460 Seropédica, RJ. 3312 specimens; Brazil; Chiroptera. Person in charge is Adriano L. Peracchi.

**Coleção Deoclécio Guerra** (DG), Dept. Biologia, Universidade Federal de Pernambuco, Cidade Universitario, 50000 Recife, PE. 100 specimens; Brazil; Chiroptera, Rodentia. Person in charge is Deoclécio de Queiroz Guerra Filho.

**Coleção Privado de Estanislau Kostka Pinto da Silveira**, % Maria Consuelo P. da Silveira, Rua Evaristo da Veiga, 45/302, Cinelândia, 20,000 Rio de Janeiro. Count of specimens not given; Brazil; Primates, Rodentia, Carnivora. Person in charge is Estanislau Kostka Pinto da Silveira.

**Departamento dos Mamíferos Aquáticas**, Instituto Nacional de Pesquisas da Amazônia, C.P. 478, 69000 Manaus, AM. 190 specimens; Brazil; *Trichechus, Inia, Sotalia*. Person in charge is Robin C. Best.

**Museu "Ângelo Moreira da Costa Lima,"** Av. Feliciano Coelho 1509, 68900 Macapá, AP. 72 specimens; Brazil; Edentata, Primates. Person in charge is Antonio Carlos da Silva Farias.

**Museu de Ciências Naturais**, Fundação Zoobotânica, Rua Coronel Vicente, 281 6° andar., 90000 Porto Alegre, RS. 710 specimens; Brazil; Chiroptera, Rodentia. Person in charge is Flavio Silva.

**Museu Nacional** (MN), Universidade Federal do Rio de Janeiro, Quinta da Boa Vista, São Cristovão, 20942 Rio de Janeiro, RJ. 85,000 specimens; 60 holotypes; Brazil; Marsupialia, Edentata, Primates, Rodentia. Person in charge is José Francisco da Cruz and João Moojen.

**Museu Oceanográfico do Rio Grande**, Fundação Universidade do Rio Grande, C.C. 474, 96200 Rio Grande, RS. 100 specimens; Brazil; Cetacea, Pinnipedia. Persons in charge are Hugo P. Castello and Maria Cristina Pinedo.

**Museu Paraense "Emílio Goeldi"** (MPEG), Caixa Postal 399, 66000 Belém, Pará. 8864 specimens; 5 holotypes; Brazil; Chiroptera, Primates, Carnivora, Artiodactyla. Person in charge is Dr. Fernando C. Novaes.

**Museu de Zoologia**, Universidade de São Paulo, Caixa Postal 7172, São Paulo. 15,764 specimens; 19 holotypes; Brazil; Marsupialia, Chiroptera, Primates, Rodentia. Includes material formerly in the Museu Paulista. Persons in charge are Helio Ferraz de Almeida Camargo and Dr. Paulo E. Vanzolini.

**Universidade Estadual Paulista (UNESP)**, Departamento de Zoologia, Instituto de Biociências, 15100 São José do Rio Preto, SP. 4500 specimens; 1 holotype; Brazil; Chiroptera. Person in charge is Valdir Antonio Taddei.

**Zoologia—Universidade Estadual de Campinas (ZUEC)**, Caixa Postal 1170, Campinas 13100, São Paulo, SP. 1000 specimens; Brazil; Marsupialia, Rodentia. Person in charge is Prof. Fernando Dias de Avila-Pires.

#### BRUNEI

**Muzium Brunei**, Kota Batu. 63 specimens; Brunei; Carnivora. Person in charge is P. M. Dato Shariffuddin.

#### BULGARIA

**Institute of Zoology**, Bulgarian Academy of Sciences, Boul. Ruski 1, 1000 Sofia. 5900 specimens; 2 holotypes; Bulgaria; Insectivora, Rodentia, Artiodactyla. Person in charge is Dr. S. Gerasimov.

**Institute of Zoology**, Bulgarian Academy of Sciences, Boul. Ruski 1, 1000 Sofia. 2500 specimens; Mediterranean; Insectivora, Rodentia, Artiodactyla. Person in charge is Georgi Markov.

**National Natural History Museum**, Bulgarian Academy of Sciences, Boul. Ruski 1, 1000 Sofia. 1010 specimens; Bulgaria; Lagomorpha, Carnivora, Artiodactyla. Person in charge is N. B. Spassov.

**Natural History Museum**, 34 Gen. Zaimov, Plovdiv. 150 specimens; Bulgaria; Carnivora. Person in charge is Tzeno Hristov Petrov.

**University of Plovdiv**, Biological Faculty, Zar Asen 24, 4000 Plovdiv. 1500 specimens; Bulgaria; Insectivora, Rodentia. Person in charge is Dr. D. Mitev.

**University of Sofia**, Biological Faculty, Dragan Zankov 6, 1421 Sofia. 600 specimens; Bulgaria; Insectivora, Rodentia. Person in charge is Prof. Z. Peshev.

#### CHILE

**Colección Particular de Fabian Jakšić y José Yañez**, Laboratorio de Ecología, Universidad Católica de Chile, Santiago. 250 specimens (skulls only); Chile; Rodentia. Person in charge is Fabian M. Jakšić.

**Colección Zoológica**, Instituto de la Patagonia, Casilla 102-D, Punta Arenas. 1000 specimens; 1 holotype; southern Chile; Rodentia, Carnivora, Pinnipedia, Delphinidae, Cervidae. Person in charge is Walter H. Sielfeld K.

**Instituto de Ecología y Evolución (IEEUA)**, Universidad Austral de Chile, Casilla 567, Valdivia. 800 specimens; central and southern Chile; Marsupialia, Rodentia. Person in charge is Milton Gallardo Narcisi.

**Laboratorio de Citogenética (LCM)**, Departamento de Biología Celular y Genética, Fac. de Medicina, Universidad de Chile, Casilla 6556, Santiago 7. 800 specimens; northern and central Chile; Rodentia. Person in charge is Prof. Angel Spotorno O.

**Museo Nacional de Historia Natural**, Casilla 787, Santiago. 560 specimens; 18 holotypes; central Chile; Rodentia. Person in charge is Lic. José Yañez.

**Museo de Zoología de la Universidad de Concepción (MZUC)**, Instituto de Biología "Ottmar Wilhelm G.", Casilla 1367, Concepción. 574 specimens; Chile; Chiroptera, Rodentia, Mustelidae. Includes part of the former collection of Dr. Guillermo Mann F. Person in charge is Tomás Cekalovic K.

#### COLOMBIA

**Instituto de Ciencias Naturales (ICN)**, Museo de Historia Natural, Universidad Nacional de Colombia, Apartado Aéreo 7495, Bogotá. 8300 specimens; 6 holotypes; Colombia; Marsupialia, Chiroptera, Lagomorpha, Edentata, Primates, Carnivora, Artiodactyla. Includes some specimens from the Parque Catios del INDERENA and the bats from the collection of the Universidad del Valle. Person in charge is Dr. Alberto Cadena.

**Instituto de Recursos Naturales Renovables (INDERENA)**, Calle 26 #13-B-47, Bogotá. 3000 specimens; eastern plains and Amazonian Colombia; Chiroptera, Rodentia. Person in charge is Dr. Hernando Chiriví.

**Museo de Historia Natural del Colegio de San José**, Apartado Aéreo 11-80, Medellín. 300 specimens; Departamento de Antioquia, Colombia; Marsupialia, Chiroptera. Person in charge is Hno. Marco A. Serna D.

**Museo del Instituto de la Salle**, Calle 11 No. 1-69, Apartado Aéreo 27389, Bogotá, D.E. 2500 specimens; Colombia; Chiroptera. Persons in charge are Hno. Nicéforo María and Hno. Daniel Julain González P.

#### CUBA

**Instituto de Zoología**, Academia de Ciencias de Cuba, La Habana 2. 5000 specimens; 5 holotypes (sub-Recent fossils); Cuba; Chiroptera. Person in charge is Gilberto Silva.

**Instituto de Zoología**, Dept. de Vertebrados, Capitolio Nacional, La Habana 2. No count of specimens given; 4 holotypes; Cuba; Chiroptera, Rodentia. Person in charge is Lic. Lourdes Rodriguez.

### CZECHOSLOVAKIA

**Department of Anatomy**, Faculty of Medicine, U nemocnice 3, Charles University, Praha 2, 2000 specimens; Palearctic; Primates. Person in charge is Prof. R. Čihák.

**Institute of Systematic Zoology**, Charles University, Viničná 7, Praha 2. 16,000 specimens; Czechoslovakia, Balkans, Middle Asia; Insectivora, Chiroptera, Rodentia. Person in charge is Dr. Vladimír Hanák.

**Institute of Vertebrate Zoology**, Czechoslovak Academy of Sciences, Květná 8, 66365 Brno. 30,000 specimens; 2 holotypes; Czechoslovakia; Insectivora, Chiroptera, Rodentia, Carnivora. Person in charge is Dr. Oldřich Stěrba.

**Ivan Horáček Private Collection**, S. Michelská 1182, 14500 Praha 4. 150 specimens; Europe; Insectivora, Chiroptera, Rodentia. Person in charge is Ivan Horáček.

**Krajské Múzeum**, Přírodověd. odd., Husovo nám. 124, 50002 Hradec Králové. 300 specimens; Czechoslovakia; Chiroptera, Rodentia. Person in charge is Dr. Karel Lohniský.

**Museum of the South Bohemian Peat-bogs**, Soběslav. 1050 specimens; Czechoslovakia; Insectivora, Rodentia. Person in charge is Petr Zbytovský.

**National Museum (NH)**, Václavské nám. 68, CS 11579 Praha 1. 19,000 specimens in mammalogy and 5500 specimens in osteology; 2 holotypes; central and southern Europe; Insectivora, Primates, Rodentia. Persons in charge are Dr. Vratislav Mazák (mammalogy) and Dr. Ivan Heráň (osteology).

**Okresní Múzeum Orlických Hor**, 51611 Rychnov nad Kněžnou. 600 specimens; Czechoslovakia; Rodentia. Person in charge is Zdeněk Nespěchal.

**Polabské Múzeum**, Palackého třída 68/III, CS 29001 Poděbrady. 387 specimens; Czechoslovakia; Insectivora, Rodentia, Carnivora. Person in charge is Dr. Václav Ziegler.

**Považské Múzeum**, Budatínsky Zámok, 01003 Zilina-Budatín. 1000 specimens (plus about 10,000 pieces from owl pellets); Czechoslovakia; Insectivora, Rodentia, Carnivora. Person in charge is Ing. Ján Obuch.

**Slezské Múzeum**, 74646 Opava. 5500 specimens; Czechoslovakia; Insectivora, Rodentia, Carnivora. Person in charge is Bohuslav Beneš.

**Slovenské Národné Múzeum**, Prírodovedný ústav, Vertebratologické odd., Vajanského nábr. 2, 88536 Bratislava. 1500 specimens; Czechoslovakia; Insectivora, Chiroptera, Rodentia. Persons in charge are Dr. Alojz Habovštiak, Dr. Štefan Juriš, and Dr. Branislav Matoušek.

**Východoseské Múzeum**, Zámek 1, 53134 Pardubice. 700 specimens; Czechoslovakia; Chiroptera, Rodentia. Person in charge is Jan Sklenář.

**Západočeské Múzeum v Plzni**, Kopeckého sady 2, Plzeň. 5000 specimens; Czechoslovakia; Insectivora, Chiroptera, Rodentia. Person in charge is Dr. Luděk Hůrka.

**Zbierka Liptovského Múzea**, 03450 Ružomberok. 50 specimens; Czechoslovakia; Carnivora, Artiodactyla. Person in charge is Ing. Pavol Karč.

**Zoologické Sbírky**, Severočeského Musea, Liberec. 1000 specimens; Czechoslovakia; Chiroptera, Rodentia. Person in charge is Dr. Miloslav Nevrly.

#### DENMARK

**Natural History Museum**, Building 210, Universitetsparken, 8000 Aarhus C. 3000 specimens; Europe, Africa. Person in charge is Birger Jensen.

**Zoological Museum of the University (ZMUC)**, Universitetsparken 15, 2100 Copenhagen Ø. 35,000 specimens; 40 holotypes; Europe, Greenland, Brazil, West Pacific, Africa; general taxonomic representation. Person in charge is Dr. Hans J. Baagøe.

#### EGYPT

**Wassif's Collection**, Department of Zoology, Faculty of Science, Ain Shams University, Abbassia, Cairo. 1300 specimens (plus many alcoholic specimens of bats and insectivores); Egypt including Sinai; Insectivora, Chiroptera, Rodentia. Person in charge is Mr. Soheil S. Soliman.

**Zoological Museum**, Giza Zoological Garden, Giza, Orman. No count of specimens given; Egypt; Chiroptera, Rodentia. Includes the Flower's Collection. Person in charge is Dr. Mervat Morcos.

#### EL SALVADOR

**Museo de Historia Natural de El Salvador**, Parque Saburo Hirao, San Salvador. 306 specimens; El Salvador; Chiroptera, Rodentia. Persons in charge are Victor Hellebuyck and Salvador Gómez.

#### ENGLAND

**Birmingham Museums and Art Gallery (BIRMG)**, Chamberlain Square, Birmingham B3 3DH. 400 specimens; Great Britain, Ireland; Chiroptera, Rodentia, Mustelidae. Includes material from J. L. Auden collection. Person in charge is Dr. B. Abell Seddon.

**Booth Museum of Natural History**, 194 Dyke Rd., Brighton, Sussex. 1800 specimens; 5 holotypes; worldwide; Primates, Rodentia, Carnivora. Persons in charge are Dr. G. Legg and Mr. J. M. Adams.

**Borough of Ipswich Museums**, The Museum, High Street, Ipswich IP1 3QH. 500 specimens. Person in charge is H. Mendel.

**British Museum (Natural History)**, Cromwell Road, London SW7 5BD. 300,000 specimens; approximately 9000 holotypes; cosmopolitan; all taxonomic groups represented. Includes material of Lidthdejeude, Tomes, Forsyth Major, Lataste, Selous, Rothschild, Robinson, Zoological Society of London, Gould, and many other historical collections. Person in charge is Ian R. Bishop.

**Buckinghamshire County Museum (BCM)**, Church Street, Aylesbury, Buckinghamshire. 100 specimens; Buckinghamshire, England. Person in charge is Miss J. Raystan.

**City of Bradford Metropolitan Council Art Galleries and Museums (BRFMS)**, Cliffe Castle Museum, Spring Gardens Lane, Keighley, West Yorkshire BD20 6LH. 515 specimens; Yorkshire, England; Insectivora, Chiroptera, Rodentia. Person in charge is Miss M. M. Hartley.

**City of Bristol Museum and Art Gallery (BRSMG)**, Queen's Road, Bristol, Avon BS8 1RL. 3500 specimens; Great Britain, Africa, Australasia; Marsupialia, Insectivora, Chiroptera, Rodentia. Includes material formerly held by The Bristol Philosophical and Literary Institution. Persons in charge are Mrs. A. F. Hollowell and Mr. C. J. T. Copp.

**Clifton Park Museum (ROTMG)**, Clifton Lane, Rotherham, South Yorkshire. 150 specimens; Yorkshire, England; Insectivora, Rodentia, Carnivora. Person in charge is W. A. Ely.

**Harrison Zoological Museum (HZM)**, Bowerwood House, St. Botolph's Road, Sevenoaks, Kent. 9500 specimens; South West Asia, Africa, Europe, South America; Insectivora, Chiroptera, Rodentia. Person in charge is Dr. David L. Harrison.

**Horniman Museum**, London Road, Forest Hill, London SE23 3PQ. 1000 specimens; worldwide. Person in charge is Gordon E. Williams.

**Kendal Museum**, Station Road, Kendal, Cambria. 160 specimens (mainly trophy heads). Person in charge is W. M. Grange.

**Leicestershire Museums, Art Gallery and Records Service (LEICS)**, 96 New Walk, Leicester LE1 6TD. 2640 specimens; British Isles; Insectivora, Chiroptera, Rodentia, Carnivora. Includes part of the F. Nisbet private collection. Person in charge is Dr. John H. Mathias.

**Museum and Art Gallery**, Civic Centre, Bolton, Lancs BL1 1SA. 450 specimens; British Isles; Insectivora, Rodentia. Person in charge is Miss K. M. Berry.

**North Hertfordshire Museums Service**, Natural History Department, Paynes Park, Hitchin, Hertfordshire SG5 1EQ. 253 specimens; Britain. Address inquiries to Keeper of Natural History.

**Passmore Edwards Museum**, Romford Road, Stratford, London E15 4LZ. 175 specimens; Essex, England. Person in charge is Ian G. Robertson.

**Powell-Cotton Museum**, Quex Park, Birchington, Kent. 6000 specimens; approximately 40 holotypes; Africa, Asia; Primates, Rodentia, Carnivora, Proboscidea, Perissodactyla, Artiodactyla. Person in charge is L. R. Barton.

**Private Collection of D. M. Stoddart**, Department of Zoology, University of London King's College, Strand, London WC2R 2LS. 261 specimens; England, Europe; Rodentia. Person in charge is Dr. D. M. Stoddart.

**Sunderland Museum**, Tyne & Wear County Council Museums, Borough Rd., Sunderland, Tyne & Wear SR1 1PP. 300 specimens; north-eastern England; Insectivora, Carnivora. Includes specimens formerly in South Shields Museum & Art Gallery, Tyne & Wear, and Saltwell Towers Museum, Gateshead, Tyne & Wear. Person in charge is Mr. P. S. Davis.

**University College Museum of Zoology and Comparative Anatomy (LDUCZ)**, Gower Street, London WC1E 6BT. 827 specimens; Africa, Asia, Australasia, Europe, South America; Marsupialia, Insectivora, Primates, Rodentia, Carnivora. Person in charge is Mrs. R. M. Downs.

#### FEDERAL REPUBLIC OF GERMANY

**Anatomisches Institut der Georg-August-Universität**, Kreuzbergring 36, D-3400 Göttingen. 3000 specimens; Liberia; Primates. Person in charge is Hans-Jürg Kuhn.

**Coll. Helversen**, Zoologisches Institut, Albert-Ludwigs-Universität, Albertstrasse 21, D-7800 Freiburg im Breisgau. 100 specimens; Europe. Person in charge is Dr. O. V. Helversen. .

**Coll. Pieper/Kiel**, Geologisch-Paläontologisches Institut und Museum, Universität Kiel, Olshausenstrasse 40/60, D-2300 Kiel. 30,000 to 40,000 specimens from owl pellets; Germany; Insectivora, Chiroptera, Rodentia. Person in charge is Dr. Harald Pieper.

**Forschungsinstitut und Natur-Museum Senckenberg (SMF)**, Senckenberg-Anlage 25, D-6000 Frankfurt am Main. 55,000 specimens; approximately 190 holotypes; worldwide; Chiroptera, Primates, Rodentia, Ungulata. Person in charge is Dr. Heinz Felten.

**Landessammlungen für Naturkunde (LNK)**, Erbprinzenstrasse 13, P.O. Box 4045, D-7500 Karlsruhe 1. 10,000 specimens; 1 holotype; Liberia, Tanzania; Primates, Rodentia, Carnivora, Artiodactyla. Includes the collection of the ethnologist Dr. H. Himmelheber, Heidelberg. Person in charge is Dr. Ralf Angst.

**Privatsammlung Prof. Dr. Jochen Niethammer**, Zoologisches Institut der Universität, Poppelsdorfer Schloss, D-5300 Bonn. 6000 specimens; southern and central Europe, Afghanistan; Insectivora, Rodentia. Person in charge is Prof. Dr. Jochen Niethammer.

**Staatliches Museum für Naturkunde Stuttgart (SMNS)**, Säugetier-

Abteilung, Schloss Rosenstein, D-7000 Stuttgart 1. 30,000 specimens; 30 holotypes; Africa, Europe, Australia; Marsupialia, Insectivora, Chiroptera, Rodentia, Carnivora. Person in charge is Dr. Fritz Dieterlen.

**Zoologische Abteilung des Hessischen Landesmuseums Darmstadt**, Friedensplatz 1, D-6100 Darmstadt. 2000 specimens; central Europe, Africa; Rodentia, Carnivora, Artiodactyla. Person in charge is Dr. Hanns Feustel.

**Zoologische Staatssammlung München (ZMS)**, Maria-Ward-Strasse 1b, D-8000 München 19. 100,000 specimens; number of holotypes unknown; Eurasia, South America; Primates, Carnivora, Ungulata. Person in charge is Dr. habil. E.-J. Fittkau.

**Zoologisches Forschungsinstitut und Museum Alexander Koenig (ZFMK)**, Adenauerallee 150-164, D-5300 Bonn 1. 30,000 specimens; 52 holotypes; Europe, Asia Minor, China, Africa; Insectivora, Chiroptera, Rodentia, Artiodactyla. Person in charge is Dr. Rainer Hutterer.

**Zoologisches Institut und Zoologisches Museum**, Universität Hamburg, Martin-Luther-King-Platz 3, 2000 Hamburg 13. 10,000 specimens; Europe, Africa, India; Rodentia, Pinnipedia, Artiodactyla. Person in charge is Prof. Dr. Harald Schliemann.

#### FINLAND

**Kuopio Museum (KUO)**, Kauppakatu 23, SF-70100 Kuopio 10. 600 specimens; Finland. Person in charge is Dr. Eino Savolainen.

**Lapin Maakuntamuseo**, Luonnon tiede osasto, Hallituskatu 11, SF-96100 Rovaniemi 10. 250 specimens; Finland; Lagomorpha, Rodentia, Carnivora, Artiodactyla. Person in charge is Heikki Uotila.

**Zoological Museum**, University of Helsinki, P. Rautatiekatu 13, SF-00100 Helsinki 10. 13,000 specimens; Finland; Insectivora, Rodentia, Carnivora, Artiodactyla. Includes the E. J. Bonsdorff osteological collection and the Virkki collection of *Sciurus vulgaris*. Person in charge is Dr. Lasse Sammalisto.

**Zoological Museum**, University of Oulu, Kasarminte 8, SF-90100 Oulu 10. 20,000 specimens; Finland, northern Scandinavia; Insectivora, Rodentia, Carnivora. Includes material formerly in the zoological collections of Societas Amicorum Natura Ouluensis. Person in charge is Eino Erkinaro.

#### FRANCE

**Laboratoire d'Anatomie Comparée (AC)**, Muséum National d'Histoire Naturelle, 55 rue de Buffon, F-75005 Paris. 16,000 specimens (essentially osteological specimens); several dozen holotypes but no count available; Europe, Africa, South America; general taxonomic coverage. Person in charge is Professeur J. Anthony.

**Laboratoire de Zoologie, Mammifères et Oiseaux**, Muséum National d'Histoire Naturelle (MNHN), 55 rue de Buffon, F-75005 Paris. 10,000 specimens; numerous holotypes but no precise count available; Africa; Rodentia. Persons in charge are Dr. Francis Petter, Dr. Michel Tranier, and Jean Roche.

**Musée Guimet d'Histoire Naturelle**, 28 Boulevard des Belges, F-69006 Lyon. 1000 specimens; Europe. Person in charge is Monsieur Michel Philippe.

**Musée d'Histoire Naturelle**, Palais Longchamp, F-13001 Marseille. 483 specimens; Europe, Africa, Asia; Primates, Rodentia, Carnivora. Person in charge is M. Robert M. Jullien.

**Musée des Sciences Naturelles d'Orléans**, 2 rue Marcel Proust, F-45000, Orléans. 71 specimens; Europe; Carnivora, Artiodactyla. Person in charge is Madame F. Lespinasse.

**Musée Zoologique**, Université et de la Ville, 29 Bd de la Victoire, F-67000 Strasbourg. 3000 specimens; worldwide; Primates, Carnivora. Includes the Haensel's collection of the skulls of domestic dogs. Person in charge is G. Hildwein.

**Muséum d'Histoire Naturelle**, 28 rue Albert ler, F-17000 La Rochelle. 1000 specimens; 2 holotypes; France, Africa; marine mammals. Person in charge is Dr. R. Duguy.

**Muséum d'Histoire Naturelle**, 12 rue Voltaire, F-44000 Nantes. 463 specimens; France; Cetacea, Mustelidae. Person in charge is Madame Jacqueline Baudouin.

**Muséum d'Histoire Naturelle Gabriel Foucher**, Parc des Expositions, F-18000 Bourges. 115 specimens; Europe, Africa; Carnivora, Ungulata. Person in charge is Jean-Jacques Bayeul.

**Muséum d'Histoire Naturelle de Nice**, 60 Boulevard Risso, F-06300 Nice. 67 specimens. Person in charge is Philippe Ewald.

**Muséum d'Histoire Naturelle de Saint-Denis**, rue Poivre, F-97400 Saint-Denis (Ile de la Réunion). No count of specimens or holotypes given; Africa; Primates. Person in charge is M. Harry Gruchet.

#### GERMAN DEMOCRATIC REPUBLIC

**Biologisches Institut des Bereiches Medizin der Martin-Luther-Universität Halle-Wittenberg**, Universitätsplatz 7, 402 Halle. 500 specimens; *Lagurus lagurus*, *Ondatra zibethicus*. Person in charge is Frau Ilse Hilpert.

**Mauritianum Naturkundliches Museum**, Postfach 128, 74 Altenburg. 800 specimens; Germany; Insectivora, Rodentia. Direct inquiries to the Director.

**Museum der Stadt Gotha**, Museum der Natur, Parkallee 15, Postfach 217, 58 Gotha. 300 specimens; central Europe; Chiroptera, Rodentia. Person in charge is Wolfgang Zimmermann.

**Phyletisches Museum**, Sektion Biologie, Friedrich-Schiller-Universität, 69 Jena. 2000 specimens; Europe. Person in charge is Dr. D. V. Knorre.

**Staatliches Museum für Naturkunde**, Forschungsstelle, Am Museum 1, 89 Görlitz. 1332 specimens; central Europe. Person in charge is Siegfried Tobisch.

**Staatliches Museum für Tierkunde Dresden**, Augustusstrasse 2, 801 Dresden. 20,000 specimens; 20 holotypes; central Europe, Indonesia, China; Primates, Rodentia. Persons in charge are Dr. R. Hertel and Dr. Alfred Feiler.

**Zoologie der Sektion Biowissenschaften der Martin-Luther-Universität**, Domplatz 4, 402 Halle (Saale). 4200 specimens; 15 holotypes; Palearctic Region, especially Mongolia; Rodentia. Person in charge is Dr. Rudolf Piechocki.

**Zoologisches Museum**, Ernest-Moritz-Arndt-Universität, Joh.-Seb.-Bach-Strasse 11/12, 2200 Greifswald. 600 specimens; central Europe. Person in charge is Dr. G. Müller.

#### GHANA

**University of Ghana**, Department of Zoology, P.O. Box 67, Legon, Accra. 700 specimens; Ghana; Rodentia. Person in charge is Dr. P. Grubb.

#### HONDURAS

**Museo Animal**, Departamento de Vida Silvestre, Dirección General de Recursos Naturales Renovables, Tegucigalpa, D.C. 50 specimens; Honduras. Person in charge is Wilberto Aguilar N.

#### HUNGARY

**Bakonyi Természettudományi Múzeum** (BTM), Rákóczi-tér 1, H-8420 Zirc. 756 specimens; Hungary; Insectivora, Chiroptera, Rodentia. Person in charge is Szvezsényi László.

**Savaria Múzeum**, Természettudományi Osztálya, Kisfaludy S. u. 9, H-9701 Szombathely. 50 specimens; Hungary; Insectivora, Rodentia, Carnivora. Person in charge is Dr. Horváth Ernő.

#### ICELAND

**Náttúrufraedistofnun Íslands**, P.O. Box 5320, 125 Reykjavík. 150 specimens; Iceland; Muridae, Canidae, Phocidae. Person in charge is Aivar Petersen.

#### INDIA

**Bombay Natural History Society**, Hornbill House, Shahid Bhagat Singh Road, Bombay-400023. 18,000 specimens; holotypes present but

no count given; Indian Region; Insectivora, Chiroptera, Primates, Lagomorpha, Rodentia, Carnivora, Artiodactyla. Person in charge is Dr. Robert B. Grubh.

**Central Arid Zone Research Institute (CAZRI)**, Jodhpur-342003, Rajasthan. 500 specimens (in fluid); Indian Desert; Rodentia. Person in charge is Dr. Ishwar Prakash.

**Collections of the Zoology Section**, Government Museum, Madras-600008. 150 specimens; southern India; Carnivora. Direct inquiries to Curator.

**Life-Science Museum**, 1066 Civil Lines, Jhansi-284001, U.P. 430 specimens; India; Insectivora, Chiroptera, Primates, Rodentia. Person in charge is Dr. Fazlulhaq Rehmani.

**National Institute of Virology**, Zoological Collection, 20-A Dr. Ambedkar Road, Pune-411001. 1000 specimens; 1 holotype; Indian Region; Insectivora, Chiroptera; Rodentia. Direct inquiries to the Director.

**National Museum of Natural History**, FICCI Museum Building, Barakhamba Road, New Delhi-110001. 100 specimens; India. Person in charge is Dr. S. M. Nair.

**National Zoological Collection of India**, Zoological Survey of India (ZSI), 34, Chittaranjan Ave., Calcutta 700012. 20,000 specimens; 113 holotypes; India, Pakistan, Nepal, Bhutan, Burma, Sri Lanka; Chiroptera, Rodentia. Includes material from the Asiatic Society of Bengal, Indian Museum, and a substantial portion of the mammalian collection obtained by the Bombay Natural History Society's Mammal Survey of India, Burma, and Ceylon. Person in charge is P. K. Das.

## INDONESIA

**Museum Zoologicum Bogoriense (MZB)**, LBN, Jl. Raya Juanda 3, Bogor. 13,000 specimens; Indonesia; general taxonomic representation for geographic area covered. Person in charge is Boeadi.

## IRAN

**Muzé-ye Melli-ye Tarikh-e Tabi'i (MMTT)**; Iran National Museum of Natural History), Department of the Environment, P.O. Box 1430, Tehran. 900 specimens; Iran; Rodentia. Direct inquiries to the Director.

## IRAQ

**Natural History Research Centre and Museum**, University of Baghdad, Bab Al-Muadham, Baghdad. 260 specimens; Iraq; Rodentia. Person in charge is Mrs. Nidhal Al-Hassoon.

### IRELAND

**Department of Zoology Museum**, University College, Galway. 300 specimens; worldwide; Marsupialia, Primates, Rodentia, Carnivora. Person in charge is Dr. J. S. Fairley.

**National Museum of Ireland (NMI)**, Natural History Division, Kil-dare Street, Dublin 2. 3000 specimens; western Palearctic, Ethiopian, Oriental, and Australian regions; Marsupialia, Edentata, Pholidota, Rodentia, Carnivora, Tubulidentata, Proboscidea, Artiodactyla. Person in charge is Dr. Colm E. O'Riordan.

**Zoology Museum**, Department of Zoology, Trinity College, Dublin 2. 1500 specimens; worldwide; Primates, Carnivora. Person in charge is Martyn Linnie.

### ISRAEL

**Beth Gordon Institute**, Deganya A15-120, Jordan Valley. 270 specimens; Israel; Insectivora, Chiroptera, Rodentia, Carnivora. Person in charge is Shemual Lulav.

**Beth Margolin-Institute of Natural History**, Haifa University, Oranim, Tivon. 2500 specimens; Israel, Sinai; Chiroptera, Rodentia, Artiodactyla. Includes part of the collection of the Biologic-Pedagogic Institute Tel-Aviv. Person in charge is Aryeh L. Aboulafia.

**Sana Atallah's Natural History Museum**, Beit Sahur, via Israel. 400 specimens; eastern Mediterranean Region; Chiroptera, Rodentia. Persons in charge are Issa Atallah and Mazin Butrus Qumsiyeh.

**Ussishkin House**, Institute for Natural History of the Huleh Valley, Dan, Upper Galilee. 210 specimens; Huleh Valley, Mt. Hermon; Rodentia. Person in charge is Elimelech Hurvitz.

**Zoological Museum**, Department of Zoology, Tel Aviv University, Tel Aviv. 7000 specimens; Israel and neighboring countries; Insectivora, Lagomorpha, Rodentia, Hyracoidea, Carnivora, Sirenia, Artiodactyla. Person in charge is Ms. Tsila Shariv.

**Zoological Museum of the Hebrew University**, Department of Zoology, Hebrew University, Jerusalem. 4500 specimens; Israel, Sinai, and Jordan Rift Valley; Rodentia. Person in charge is Prof. Eitan Tehernov.

### ITALY

**Centro Studi Ecologici Appenninici**, Parco Nazionale d'Abruzzo, I-67032 Pescasseroli (Aq). 55 specimens; central Apennines; Canidae, Uridae, Rupicapridae. Person in charge is Dr. Sandro Lovari.

**Collezione Microteriologica di Longino Contoli**, Segreteria Tecnica della Commissione del C.N.R. per la Conservazione della Natura, Viale dell' Università no. 11, I-00185 Roma. 5000 specimens (all from

owl pellets); Italy, Sicily; Insectivora, Rodentia. Person in charge is Dr. Longino Contoli.

**Istituto Nazionale di Biologia della Selvaggina**, Via Stradelli Guelfi 23/A, I-40064 Ozzano dell' Emilia (Bologna). 335 specimens; Italy; Insectivora, Chiroptera, Rodentia, Carnivora. Person in charge is Prof. Lamberto Leporati.

**Museo Civico di Storia Naturale** (MSNG), Via Brigata Liguria 9, I-16121 Genova. No count of specimens or holotypes given; Oriental, Ethiopian, and Palaearctic region; Marsupialia, Rodentia, Ungulata. Direct inquiries to the Director.

**Museo Civico di Storia Naturale di Milano**, Corso Venezia 55, I-20121 Milano. 5700 specimens; 4 holotypes; Italy, Africa, Palaearctic; Insectivora, Rodentia. Person in charge is Dr. Luigi Cagnolaro.

**Museo Civico di Storia Naturale**, Fontego dei Turchi-S. Croce 1730, I-30125 Venezia. 100 specimens; Italy, Africa; Carnivora, Ungulata. Person in charge is Giampaolo Rallo.

**Museo Civico di Storia Naturale** (CMVR), Lungadige Porta Vittoria 9, I-37100 Verona. 3500 specimens; Italy, Turkey; Insectivora, Rodentia. Includes material from the Museo P. Zangheri. Person in charge is Dr. B. G. Osella.

**Museo e Istituto di Zoologia Sistematica**, Università di Torino, Via Giovanni Giolitti 34, I-10123 Torino. 3500 specimens; worldwide; Chiroptera, Rodentia. Person in charge is O. Elter.

**Museo Tridentino di Scienze Naturali**, Via Calepina 14, I-38100 Trento. 900 specimens; Italy; Insectivora, Chiroptera, Rodentia. Person in charge is Dr. Claudio Chemini.

**Museo Zoologico de "La Specola,"** Università di Firenze, Via Romana 17, I-50125 Firenze. 10,000 specimens; 4 holotypes; Italy, Africa; Insectivora, Rodentia. Person in charge is Dr. Maria Luisa Azzaroli.

**Raccolta Craniologica Capolongo**, Via Roma 8, I-80030 Roccarainola (NA). 300 specimens; Italy; Insectivora, Rodentia. Person in charge is Dr. Ing. Domenico Capolongo.

#### JAMAICA

**Institute of Jamaica**, Kingston. 75 specimens; Jamaica; Chiroptera, Rodentia. Person in charge is Tom Farr.

#### JAPAN

**Department of Oral Anatomy**, School of Dentistry, Hokkaido University, N13 W7, Sapporo 060. 4000 specimens; Hokkaido and Honshu, Japan; *Sorex*, *Nyctereutes*, *Vulpes*, *Phoca*, *Cervus*. Person in charge is Noriyuki Ohtaishi.

**Dr. T. Miyao Collection**, Department of Dentistry, Aichigakuen University, Chikusaku, Nagoya City. 2500 specimens (skulls); Honshu, Japan; Muridae. Person in charge is Dr. T. Miyao.

**Hiro Vertebrate Pest Control Laboratory**, 1-4-6 Higashi-Hirayama, Hino-shi, Tokyo 191. 100 specimens; Japan; Rodentia. Person in charge is Dr. Tatsuo Udagawa.

**Laboratory of Wildlife Resource Ecology**, Department of Agro-Environmental Science, Obihiro University of Agriculture and Veterinary Medicine, Inada-cho, Obihiro, Hokkaido 080. 500 specimens; Hokkaido, Japan; Rodentia, Carnivora, Artiodactyla. Person in charge is Prof. R. Haga.

**Natural History Museum**, Faculty of Agriculture, Hokkaido University, N. 3, W. 8, Sapporo 060. 8200 specimens; 1 holotype; Japan, Nepal, Thailand; Insectivora, Rodentia. Person in charge is Dr. Hisashi Abe.

**National Science Museum**, 3-23-1 Hyakunin-cho, Shinjuku-ku, Tokyo 160. 20,214 specimens; 19 holotypes; Japan and surrounding areas; Chiroptera, Rodentia. Persons in charge are Mizuto Yushiyuki (terrestrial mammals), Nobuyuki Miyazaki (marine mammals), and Shigeru Fukuda (Director-General).

**Nara Deer Fund**, Kasugano 160, Nara 630. 1000 specimens; Nara Park; *Cervus nippon*. Person in charge is Akio Mukaida.

**Ocean Research Institute (ORI)**, University of Tokyo, 1-15-1, Minami-dai, Nakanoku. 490 specimens; western North Pacific Ocean; Odontoceti. Includes material from the Whale Research Institute, Tokyo. Person in charge is Toshio Kasuya.

**Osaka Museum of Natural History**, Nagai Park, Osaka 546. 170 specimens; central Japan; Insectivora. Person in charge is Hiroyuki Taruno.

**Primate Research Institute (PRI)**, Kyoto University, Inuyama City, Aichi 484. 4500 specimens; Japan, Southeast Asia, South America; Primates, Rodentia. Persons in charge are Dr. Mitsuru Aimi (general mammal collection) and Dr. Shunji Goto (primate collection).

**Tsuyama Museum of Science Education**, 96 Sange, Tsuyama-shi, Okayama-ken. 1000 specimens; Japan, Asia. Person in charge is Kenzo Morimoto.

#### KENYA

**National Museum of Kenya (NMK)**, P.O. Box 40658, Nairobi. 8000 specimens; Kenya; Chiroptera, Rodentia. Person in charge is Issa Ag-gundey.

#### KOREA

**Chang-gyeong Weon Zoological and Botanical Gardens**, Seoul 110. 133 specimens; Palearctic; Carnivora. Person in charge is Oh Chang young.

**National Science Museum**, 2, Waryong-dong, Chongno-ku, Seoul

110. 50 specimens; Korea; Cervidae. Person in charge is Mr. Deok-Kil Rhee.

**Natural History Museum**, Kyung Hee University, Seoul 131. 3000 specimens; Korea; Chiroptera, Rodentia. Person in charge is Prof. Won Pyong-oh.

#### LEBANON

**Museum of Natural History**, Department of Biology, American University of Beirut, Beirut. 600 specimens; 1 holotype; Lebanon, Syria, Saudi Arabia, Jordan, Turkey; Insectivora, Chiroptera, Lagomorpha, Rodentia, Carnivora. Person in charge is Mrs. Lina Faris-Naccache.

#### LIBERIA

**Natural History Museum**, Department of Biology, University of Liberia, Monrovia. 50 specimens; Liberia. Person in charge is Miss Mary T. Bryant.

#### MALAYSIA

**Department of Conservation of Wildlife and National Parks**, Kuala Lumpur 05-05. 150 specimens; Peninsular Malaysia. Direct inquiries to Director General.

**Department of Genetics and Cellular Biology**, University of Malaya, Kuala Lumpur 22-11. 200 specimens; Peninsular Malaysia; Muridae. Person in charge is Yong Hoi Sen.

**Institute for Medical Research**, Division of Medical Ecology, USAMRU, Pahang Road, Kuala Lumpur. 8000 specimens; Peninsular Malaysia, Sabah, Sarawak; Sciuridae, Muridae. Person in charge is Dr. Inder Singh.

**National Museum**, Damansara Road, Kuala Lumpur. 217 specimens; Peninsular Malaysia, Sabah, Sarawak; Chiroptera, Primates, Rodentia. Person in charge is Mr. Heah Soon Hock.

**Sabah Museum**, P.O. Box 1239, Kota Kinabalu, Sabah. 1187 specimens; Sabah; Primates, Rodentia, Carnivora. Persons in charge are David W. McCredie and Raymond Goh.

**Sarawak Museum**, Kuching, Sarawak. 2502 specimens; 30 holotypes; Borneo; Chiroptera. Direct inquiries to Curator.

**Zoology Department**, University of Malaya, Kuala Lumpur 22-11. 1000 specimens; Peninsular Malaysia; Chiroptera, Rodentia. Person in charge is Dr. D. R. Wells.

#### MEXICO

**Escuela Nacional de Ciencias Biológicas (ENCB)**, Instituto Politécnico Nacional, Carpio y Plan de Ayala, Mexico, D.F. 13,500 speci-

mens; Mexico; Chiroptera, Rodentia. Person in charge is Ticul Alvarez.

**Universidad Autónoma Metropolitana-Iztapalapa** (UAMI), División de Ciencias Biológicas y de la Salud, Departamento de Biología, Apartado Postal 55-535, México 13, D.F. 2761 specimens; Puebla and Tlaxcala, Mexico; Marsupialia, Chiroptera, Lagomorpha, Rodentia, Carnivora. Person in charge is Prof. José Ramírez-Pulido.

**Universidad Nacional Autónoma de México** (UNAM), Instituto de Biología, Ciudad Universitaria, México 20, D.F. 18,000 specimens; 10 holotypes; Mexico; Chiroptera, Rodentia. Person in charge is Dr. Bernardo Villa-R.

### MOROCCO

**Museum de l'Institut Scientifique**, Section Zoologie, Avenue Ibn Battouta, BP 703, Rabat Agdal. 850 specimens; Morocco; Insectivora, Chiroptera, Rodentia, Carnivora, Artiodactyla. Persons in charge are Michel Thévenot and Tahiri Hamid.

### MOÇAMBIQUE

**Museu de Historia Natural** (MHN), Praça da Travessia do Zambeze, Maputo. 208 specimens; Mozambique. Person in charge is D. J. A. Travassos Santos Dias.

**Universidade Eduardo Mondlane**, Faculdade de Biologia, Dep. Zoologia, Maputo. 836 specimens; southern Mozambique; Rodentia. Person in charge is Hans Feijen.

### NAMIBIA

**Etosha Ecological Institute** (EEEI), Etosha National Park, Okaukuejo 9224. 3689 specimens; Namibia; Insectivora, Chiroptera, Rodentia, Carnivora, Bovidae. Person in charge is John E. W. Dixon.

**State Museum** (SMW), P.O. Box 1203, Windhoek 9100. 7500 specimens; Namibia, Angola; Insectivora, Rodentia. Person in charge is C. G. Coetzee.

### NEW ZEALAND

**Auckland Institute and Museum**, Private Bag, Auckland. 1000 specimens; New Zealand; Chiroptera, Pinnipedia, Cetacea. Person in charge is E. G. Turbott.

**Canterbury Museum**, Rolleston Avenue, Christchurch 1. 3100 specimens; New Zealand; Pinnipedia, Cetacea. Persons in charge are G. A. Tunnicliffe and R. J. Scarlett.

**National Museum of New Zealand (NMNZ)**, Private Postal Bag, Wellington. 2000 specimens; 5 holotypes; New Zealand, Subantarctic islands; Pinnipedia, Cetacea. Person in charge is Dr. A. N. Baker.

#### NORTHERN IRELAND

**Ulster Museum and Botanic Gardens**, Zoology Department, Belfast BT9. 400 specimens; Northern Ireland; Lagomorpha, Rodentia, Carnivora. Person in charge is Marshall McKee.

#### NORWAY

**Zoological Museum (ZMO)**, University of Oslo, Sarsgt. 1, Oslo 5. 12,000 specimens; 17 holotypes and lectotypes; Scandinavia, Australia. Person in charge is Jørgen A. Pedersen.

#### PANAMA

**Museo de Ciencias Naturales**, Instituto Nacional de Cultura, Apartado Postal No. 662, Panama 1. 56 specimens; Panama; Primates, Artiodactyla. Person in charge is Profesora Nuria I. Esquivel.

#### PAPUA NEW GUINEA

**Papua New Guinea National Museum & Art Gallery (PNGM)**, P.O. Box 5560, Boroko. 688 specimens; Papua New Guinea; Monotremata, Marsupialia, Rodentia. Person in charge is Paul Wamas Banguinan.

**University of Papua New Guinea (UPNG)**, % Biology Department, Box 4820 University P.O., Port Moresby. 1750 specimens; Papua New Guinea, Solomon Islands; Chiroptera, Muridae. Person in charge is Dr. John C. Pernetta.

#### PEOPLE'S REPUBLIC OF CHINA

**Department of Vertebrate Taxonomy and Faunology**, Peking Institute of Zoology, Academia Sinica, Peking. 15,000 specimens; 60 holotypes and paratypes; China; Lagomorpha, Rodentia. Person in charge is Wang Sung.

**Peking Natural History Museum (PNHM)**, 126 Tien Chiao Street, Peking (2). 104 species represented in collection; China; general taxonomic representation of geographic area covered. No person in charge listed; address inquiries to Department of Zoology.

#### PHILIPPINES

**Museum of Arts and Sciences**, University of Santo Tomas, Manila. 2000 specimens; Philippines; Chiroptera, Rodentia, Carnivora, Artiodactyla. Person in charge is Rev. Fr. Hesus M. Merino Antolinez.

**University of the Philippines at Los Baños Wildlife Collection**, College

of Forestry, College, Laguna 3720. 5500 specimens; Philippines. Person in charge is Dr. Dioscoro S. Rabor.

#### POLAND

**Institute of Systematic and Experimental Zoology**, Polish Academy of Sciences, ul. Stawkowska 17, 31-016 Kraków. 7300 specimens; Poland, Mongolia, Iraq, Cuba, Mexico, North Africa; Insectivora, Chiroptera, Rodentia. Includes material from the private collection of Dr. B. W. Wołoszyn. Persons in charge are Dr. Henryk Kubiak and Mrs. B. Dziurdzik.

**Mammals Research Institute (MRI)**, Poland Academy of Sciences, 17-230 Białowieża. 145,000 specimens (plus 927 samples of owl pellets containing about 300,000 remnants of mammals); Poland and adjacent areas; Insectivora, Chiroptera, Lagomorpha, Rodentia, Carnivora, Artiodactyla. Includes material formerly in the collections of the Forestry Research Institute (approximately 13,500 specimens from the areas of the Białowieża National Park) and the Institute of Zoology in Warsaw (material collected by Professor Dehnel in 1937–1939 in that part of Poland now included in Belorussia). Person in charge is Dr. Andrzej L. Ruprecht.

**Museum, Department of Anatomy of Animals**, Institute of Applied Zoology, Academy of Agriculture, Wojska Polskiego 71c, 60-625 Poznań. 414 specimens; Europe, Africa, Asia; Artiodactyla. Persons in charge are Dr. Szymon Godynicki and Hieronim Frackowiak.

#### PORTUGAL

**Museu Bocage**, Museu e Laboratório Zoológico e Antropológico, Faculdade de Ciências, Lisboa 2. The entire collection of mammals of this museum was destroyed by a fire on 18 March 1978. Person in charge is Prof. G. F. Sacarrão.

**Museu e Laboratório Zoológico**, Universidade de Coimbra, Coimbra. 730 specimens; Holarctic, Ethiopian; Primates, Rodentia, Carnivora, Artiodactyla. Person in charge is Maria Manuela da Gama F. Assalino.

#### REPUBLICA DOMINICANA

**Museo Nacional de Historia Natural (MNHNSD)**, Plaza de la Cultura, Santo Domingo, D.N. 850 specimens; Dominican Republic; Insectivora, Chiroptera, Rodentia. Persons in charge are José Alberto Ottenwalder and David G. Robinson.

#### REPUBLIC OF SOUTH AFRICA

**Albany Museum (AMM)**, Somerset Street, Grahamstown 6140. 3000 specimens; 2 holotypes; South Africa; Chrysochloridae, Muridae, Viverridae. Person in charge is Mr. B. C. Wilmot.

**Department of Zoology**, University of Cape Town, Rondebosch 7700. 650 specimens; South Africa, Namibia; Insectivora, Rodentia, Carnivora. Person in charge is Dr. J. U. M. Jarvis.

**Department of Zoology and Entomology**, Rhodes University, Grahamstown 6140. 500 specimens; South Africa; Primates, Artiodactyla. Person in charge is Dr. M. R. Perrin.

**Durban Museum** (DM), P.O. Box 4085, Durban 4000. 750 specimens; South Africa, Mozambique, Namibia, Zimbabwe; Insectivora, Chiroptera, Primates, Rodentia, Carnivora. Person in charge is Mr. John Mendelsohn.

**East London Museum** (ELM), 319 Oxford Street, East London 5201. 1000 specimens; South Africa; Rodentia. This collection is currently on long-term loan to the Kaffrarian Museum.

**Faculty of Forestry, University of Stellenbosch**, Stellenbosch 7600. 300 specimens; South Africa; Insectivora, Rodentia. Person in charge is D. Pepler.

**Hluhluwe Game Reserve**, Natal Parks, Game and Fish Preservation Board, P.O. Box 25, Mtubatuba 3935. 241 specimens; South Africa, Rodentia. Person in charge is P. J. Birkenstock.

**John R. Ellerman Museum of Zoology**, University of Stellenbosch, 7600. 668 specimens; South Africa; Insectivora, Rodentia, Carnivora. Person in charge is Dr. Alan Channing.

**Jonkershoek Nature Conservation Station** (JNCS), Cape Provincial Department of Nature and Environmental Conservation, Private Bag 5014, Stellenbosch 7600. 880 specimens; South Africa; Chiroptera. Person in charge is J. C. Herselman.

**Kaffrarian Museum** (KM), King William's Town 5600. 25,000 specimens; 24 holotypes; South Africa, Namibia, Zambia, Malawi. Insectivora, Chiroptera, Rodentia, Lagomorpha, Carnivora. Person in charge is Pierre Swanepoel.

**Kruger National Park Museum** (KNP), Private Bag X404, Skukuza 1350. 350 specimens; South Africa; Insectivora, Chiroptera, Lagomorpha, Rodentia. Person in charge is Dr. S. C. J. Joubert.

**Mammal Research Institute**, Department of Zoology, University of Pretoria, Pretoria 0002. 478 specimens; South Africa; Chiroptera, Rodentia. Person in charge is J. A. J. Nel.

**McGregor Museum**, P.O. Box 316, Kimberley 8300. 250 specimens; South Africa; Rodentia, Carnivora, Ungulata. Person in charge is P. Richardson.

**Natal Museum**, Loop Street, Pietermaritzburg 3201. 2000 specimens; Natal; Insectivora, Rodentia. Person in charge is J. A. Pringle.

**National Museum** (NM), Box 266, Bloemfontein 9300. 1500 specimens; South Africa; Rodentia, Carnivora. Person in charge is Mr. C. D. Lynch.

**N. G. Palmer Collection**, Private Bag X546, George 6530. 600 specimens; South Africa; Insectivora, Rodentia, Carnivora. Person in charge is N. G. Palmer.

**Orange Free State Provincial Division of Nature Conservation**, Orange Free State, P.O. Box 517, Bloemfontein 9300. 600 specimens; South Africa; Lagomorpha, Primates. Person in charge is N. A. Ferreira.

**Port Elizabeth Museum (PEM)**, P.O. Box 13147, Port Elizabeth 6013. 1150 specimens; South Africa; Rodentia, Cetacea, Pinnipedia. Person in charge is Mr. G. J. B. Ross.

**Rofontein Nature Reserve**, Cape Provincial Department of Nature and Environmental Conservation, P.O. Box 23, van der Kloof Dam 8771. 132 specimens; South Africa; Carnivora, Artiodactyla. Person in charge is Ken Coetzee.

**Saasveld Museum**, South African Department of Forestry, Saasveld Forest Research Station, Private Bag x531, George 6530. 85 specimens; South Africa; Rodentia. Person in charge is G. J. Breytenbach.

**South African Institute for Medical Research**, Department of Epidemiology, P.O. Box 1038, Johannesburg 2001. 350 specimens, South Africa; Primates, Rodentia, Carnivora. Person in charge is Hillary J. Keogh.

**South African Museum (SAM)**, P.O. Box 61, Cape Town 8000. 9200 specimens; Southern Africa; Cetacea, Carnivora, Pinnipedia, Bovidae. Person in charge is Mr. P. Hirschon.

**Transvaal Museum (TM)**, P.O. Box 413, Pretoria 0001. 28,000 specimens; 410 holotypes; Southern Africa; Insectivora, Chiroptera, Lagomorpha, Rodentia. Includes material formerly held by the D. H. S. Davis collection at the South African Institute of Medical Research. Person in charge is I. L. Rautenbach.

**University of Natal at Durban**, Department of Biological Sciences, King George V Avenue, Durban 4001. 173 specimens; South Africa. Person in charge is Margaret I. Keogh.

**University of Natal at Pietermaritzburg (UNP)**, Department of Zoology, P.O. Box 375, Pietermaritzburg 3200. 1216 specimens; South Africa; Rodentia, Primates, Carnivora, Artiodactyla. Person in charge is J. Meester.

**University of Witwatersrand**, Bernard Price Institute for Palaeontological Research, 1 Jan Smuts Avenue, Johannesburg 2001. 700 specimens; South Africa; Rodentia, Hyracoidea, Carnivora, Artiodactyla. Person in charge is J. M. Maguire.

**Vrolijkheid Nature Conservation Station**, Cape Provincial Department of Nature and Environmental Conservation, Private Bag 614, Robertson 6705. 1800 specimens; South Africa; Carnivora. Person in charge is C. T. Stuart.

[Some information on South African museums was obtained from a manuscript by Wingate and Swanepoel.]

### ROMANIA

**"Grigore Antipa"** Museum of Natural History, Sos. Kisselef nr 1, Sectorul 1, Bucharest 63, 7000. 3600 specimens; southeastern Europe; Insectivora, Rodentia. Person in charge is Stefan Forcea.

**Oltenie Museum Craiova**, Str. Maxim Gorki 44, cod 1100 Craiova. 55 specimens; Romania; Insectivora, Rodentia. Person in charge is Dr. Bazilescu Elena.

### SAUDI ARABIA

**Iyad A. Nader Collection** (IAN), College of Education at Abha, P.O. Box 157, Abha. 300 specimens; Saudi Arabia; Chiroptera, Rodentia. Person in charge is Dr. Iyad A. Nader.

### SCOTLAND

**Aberdeen University**, Natural History Museum, Tillydrone Avenue, Aberdeen. 800 specimens; Britain, Europe; Lagomorpha, Felidae. Persons in charge are Professor G. Dunnet and Dr. R. Thorpe.

**Angus District Museums**, Montrose Museums, Panmure Place, Montrose, Angus. 62 specimens; Europe; Carnivora. Person in charge is Norman K. Atkinson.

**Dundee Museums & Art Galleries**, Albert Square, Dundee DD1 1DA. 350 specimens; eastern Scotland. Person in charge is R. K. Brinklow.

**Hunterian Museum**, University of Glasgow, Glasgow G12 8QQ. 65 specimens; Australia; Marsupialia, Carnivora. Direct inquiries to the Director.

**Paisley Museum and Art Galleries**, High Street, Paisley, Renfrewshire. 80 specimens; Scotland. Direct inquiries to Keeper of Natural History.

**Perth Museum and Art Gallery**, George Street, Perth. 606 specimens; Scotland, South America, Africa, Australia; Pinnipedia. Includes material formerly held by Perth Literary and Antiquarian Society and Perthshire Society of Natural History. Person in charge is M. A. Taylor.

**The Royal Scottish Museum (RSM)**, Chambers Street, Edinburgh EH1 1JF. 5000 specimens; 4 holotypes; Britain, Africa; Rodentia. Includes material formerly held by Rudd Collection, Smalley Collection of British mammals, and Turner Collection of Marine Mammals. Person in charge is Dr. A. S. Clarke.

### SENEGAL

**Laboratoire de Zoologie appliquée**, Centre ORSTOM de Dakar, BP 1386, Dakar. 2000 specimens; Senegal; Chiroptera, Rodentia, Carnivora. Direct inquiries to the Director.

### SINGAPORE

**Zoological Reference Collection (ZRC)**, Department of Zoology, University of Singapore, Bukit Timah Road, Singapore 10. 12,000 specimens; no holotypes but about 50 paratypes; Thailand, Peninsular Malaysia, Borneo, Sumatra, Java; Chiroptera, Primates, Rodentia. This is the former reference collection of the Singapore National Museum (until 1960 the Raffles Museum). Person in charge is Mrs. Yang Chang Man.

### SPAIN

**Museu de Zoologia de Barcelona**, Apartat de Correus 593, Parc de la Ciutadella, Barcelona 3. 600 specimens; Spain; Insectivora, Rodentia. Person in charge is Dr. Joaquim Gosàlbez.

### SRI LANKA

**Department of National Museums**, Colombo 7. 2885 specimens; Sri Lanka; Chiroptera, Rodentia. Person in charge is Mrs. P. R. Ratnапala.

### SUDAN

**Sudan Natural History Museum (SNHM)**, P.O. Box 321, University of Khartoum, Khartoum. 1000 specimens; Sudan; Rodentia, Ungulata. Person in charge is Dr. Mohammed A. El-Rayah.

### SURINAME

**Universiteit van Suriname**, Faculteit der Natuurtechnische Wetenschappen, Paramaribo. 250 specimens; Suriname; Chiroptera, Rodentia. Person in charge is Dr. Robert Power.

### SWEDEN

**Lunds Universitets Zoologiska Museum**, Helgonavägen 3, S-22362 Lund. 18,700 specimens; 1 holotype; Scandinavia; Insectivora, Rodentia, Mustelidae, Artiodactyla. Person in charge is Dr. Hugo Andersson.

**Zoologiska Museet**, Uppsala Universitet (UUZM), Box 561, S-75122 Uppsala. 2000 specimens; 12 holotypes (11 are Linnean types); Sweden; Rodentia. Person in charge is Dr. Lars Wallin.

### SWITZERLAND

**Musée d'Histoire Naturelle**, CH-2300 La Chaux-De-Fonds. No counts or holotypes were given; Africa; Rodentia. Includes material belonging to the Monard African collection. Person in charge is Mr. Willy Lanz.

**Muséum d'Histoire Naturelle**, Faculté des Sciences/Pérolles, CH-1700 Fribourg. 1000 specimens; Switzerland; Insectivora, Rodentia, Carnivora. Person in charge is André Fasel.

**Muséum d'Histoire Naturelle (MHNG)**, Route de Malagnou, Case Postale 284, CH-1211 Geneve 6. 25,000 specimens; 68 holotypes and syntypes; Europe, Africa, South America; Insectivora, Chiroptera, Primates, Rodentia. Includes material formerly held by Fatio and Sausseure. Persons in charge are Prof. Dr. W. Aellen and Dr. François J. Baud.

**Naturhistorisches Museum (NMBE)**, Abteilung Wirbeltiere, Bernastrasse 15, CH-3005 Bern. 10,000 specimens; Switzerland, Africa, South America; Rodentia, Carnivora. Includes material from the private collection of C. A. W. Guggisberg, Nairobi. Persons in charge are Dr. Peter Lüps and Mrs. Elsbeth Büttiker-Schumacher.

**Naturhistorisches Museum Basel**, Augustinergasse 2, CH-4001, Basell. 6000 specimens; 9 holotypes. Persons in charge are Prof. Dr. U. Rahm (skins) and Dr. H. Schaefer (osteology).

**Natur-Museum Luzern**, Kasernenplatz 6, CH-6003 Lucerne. 200 specimens; Switzerland, Australia; Monotremata, Marsupalia. Person in charge is Dr. Peter Herzer.

**Zoologisches Museum der Universität Zürich (ZMZ)**, Kästlergasse 16, CH-8006 Zürich. 7000 specimens; 2 holotypes; Switzerland, Africa; Insectivora, Rodentia. Person in charge is Dr. C. Claude.

#### TAIWAN

**Taiwan Museum**, Department of Zoology, #2 Siangyang Rd., Taipei. 187 specimens; Taiwan. Person in charge is Mr. Chen Chih Wen.

#### TANZANIA

**College of African Wildlife Management (CAWM)**, Mweka, P.O. Box 3031, Moshi. 100 specimens; Tanzania; Artiodactyla. Direct inquiries to the Principal.

**East African Institute of Malaria and Vector-borne Diseases**, P.O. Box 4, Amani. 60 specimens; Tanzania; Rodentia. Person in charge is B. S. Kilonzo.

**The Serengeti Research Institute**, P.O. Seronera, via Arusha. 1300 specimens; East Africa; Insectivora, Chiroptera, Rodentia. Includes material from the collection of the late Vessey Fitz-Gerald's Ecological Team, Tanzania National Parks. Direct inquiries to the Director.

**University of Dar es Salaam (UDSM)**, Department of Zoology, P.O. Box 35064, Dar es Salaam. 300 specimens; Tanzania; Chiroptera, Rodentia. Direct inquiries to Head of Department.

### THAILAND

**Division of Environmental Biology**, Thailand Institute of Scientific and Technological Research (TISTR), Applied Scientific Research Corporation of Thailand, 196 Phahonyothin Road, Bank Khen, Bangkok 9. 6500 specimens; 5 holotypes; Thailand, Southeast Asia; Chiroptera, Rodentia. Includes material formerly held in the collections of SEATO Medical Research Laboratory and Dr. Bodnsong Lekagul. Person in charge is Mr. Songsakdi Yenbutra.

### THE NETHERLANDS

**Natuurhistorisch Museum Rotterdam**, P.O. Box 27020, 3003 LA Rotterdam. 700 specimens; western Europe. Person in charge is R. E. Hamstra.

**Natuurhistorisch Museum Tilburg**, Kloosterstraat 26, 5038 VP Tilburg. 200 specimens; The Netherlands. Person in charge is Dr. F. J. M. Ellenbroek.

**Rijksmuseum van Natuurlijke Histoire (RMNH)**, Postbus 9517, 2300 RA Leiden. 80,000 specimens; numerous holotypes and syntypes but no count available; Netherlands, Indonesia, Suriname, Netherland Antilles; general taxonomic coverage. Person in charge is Dr. C. Smeenk.

**Zoological Museum (ZMA)**, Institute of Taxonomic Zoology, University of Amsterdam, 36 Plantage Kerklaan, 1018 CZ Amsterdam. 21,000 specimens; 10 holotypes; Europe, Indonesia, Suriname; Chiroptera, Rodentia, Carnivora, Pinnipedia, Cetacea. Includes material formerly in the Vrolik collection. Person in charge is Dr. P. J. H. van Bree.

### TUNISIA

**Laboratoire de Zoologie**, Institut National Agronomique, 43 Av. Charles Nicolle, Tunis. 200 specimens; 2 holotypes; Tunisia; Chiroptera, Rodentia. Person in charge is Mr. K. Dridi.

### TURKEY

**A. Ü. Fen Fakültesi Sistematiğ Zooloji**, Ankara. 8606 specimens; 5 holotypes; Turkey; Insectivora, Chiroptera, Lagomorpha, Rodentia. Person in charge is Prof. Dr. Bahtiye Mursaloğlu.

### UGANDA

**Uganda Virus Research Institute**, Vertebrate Zoology Section, P.O. Box 49, Entebbe. 266 specimens; Uganda; Chiroptera, Rodentia. Person in charge is Mr. Asaph Ogen-odoi.

**Zoology Museum**, Makerere University, P.O. Box 7062, Kampala. 50 specimens; Uganda. Direct inquiries to the Professor of Zoology.

### URUGUAY

**Departamento de Zoología Vertebrados (ZVC)**, Facultad de Humanidades y Ciencias, Universidad de la Republica, Calle Juan L. Cuestas 1525, Montevideo. 2000 specimens; Uruguay; Marsupialia, Chiroptera, Rodentia, Carnivora. Person in charge is Alfredo Langguth.

**Museo Nacional de Historia Natural de Montevideo**, Casilla de Correo 399, Montevideo. 3500 specimens; 2 holotypes; Uruguay; Chiroptera, Rodentia, Carnivora, Cetacea. Includes material from the former collections of Sociedad Taguató de Ciencias Naturales, Centro de Estudios de Ciencias Naturales, Sociedad Guazu-bira de Ciencias Naturales, Eduardo F. Acosta y Lara, and Juan J. Uraga-Blengio. Person in charge is Alvaro Mones.

### USSR

**All-Union Research Institute of Game Management and Fur Farming**, VNIIIOZ, Engels Street 79, Kirov. 3200 specimens; USSR; Lagomorpha, Rodentia, Carnivora. Person in charge is N. M. Zamakhaeva.

**Collection of Prof. Panteleyev**, Institute of Evolutionary Animal Morphology and Ecology, USSR Academy of Science, Moscow. Number of specimens not given; USSR; collection consist only of specimens of *Arvicola terrestris*. Person in charge is Prof. Pavel A. Panteleyev.

**Zoological Institute**, USSR Academy of Sciences, Universitetskaja nab. 1, 199164 Leningrad V-164. 100,000 specimens; 46 holotypes, lectotypes, and neotypes; USSR; Lagomorpha, Rodentia, Carnivora, Ungulata. Includes material from the Institute of Biology and Soil, Vladivostok. Person in charge is Dr. A. A. Gureev.

**Zoological Institute**, Academy of Science of USSR, Niyasov Str. 1, Tashent—95. 3303 specimens; 1 holotype; desert areas of Uzbek Republic; Rodentia, Carnivora. Person in charge is Pavlenko Tatyana Alexandrovna.

**Zoological Museum**, Tartu University, Vanemuise 46, Tartu. 5344 specimens; USSR; Lagomorpha, Rodentia. Includes material from the anatomical collection of Professor Alexander Dosenberg. Person in charge is Ingrid Heidemaa.

**Zoology Museum of the Institute of Plant and Animal Ecology**, Urals Scientific Centre, USSR Academy of Sciences, 8 Marta 202, 620008 Sverdlovsk. 48,404 specimens; 1 holotype; Urals and adjacent areas of western Siberia and Kazakhstan; Insectivora, Rodentia, Carnivora. Person in charge is Sharova Lidia Petrovna.

**Zoological Museum of the Kiev's State University**, Vladimirskaia 58,

252017 Kiev-17, Ukraine. 7000 specimens; Ukraine; Rodentia. Person in charge is Lydia M. Pisareva.

**Zoological Museum of Moscow University** (ZMMU), Herzen Str. 6, 103009 Moscow K-9. 150,000 specimens; 330 holotypes; northern Palearctic; Insectivora, Rodentia, Carnivora. Includes the private collection of Prof. S. I. Ognev. Person in charge is Dr. Olga L. Rossolimo.

#### YUGOSLAVIA

**Hrvatski Narodni Zoološki Muzej** (HNZM), Demetrova 1/II, YU-41000 Zagreb. 1500 specimens; Croatia; Insectivora, Rodentia, Carnivora. Contains material formerly in the private collections of Igalfy and Tvrthović. Person in charge is Nikola Tvrthović.

**Prirodoslovni Muzej Slovenije**, Prešernova 20, YU-61000 Ljubljana. 700 specimens; Yugoslavia, Nepal; Insectivora, Rodentia. Persons in charge are J. Gregori and B. Kryštufek.

**Private Collection of B. Kryštufek**, Valjačeva 28, YU-64000 Kranj. 1000 specimens; Yugoslavia; Insectivora, Rodentia. Person in charge is B. Kryštufek.

**Zemaljski Musej**, Odjeljenje Za Prirodne Nauke—Zoološki Odsjek, Vojvode Putnika 7, YU-71000 Sarajevo. 629 specimens; 12 holotypes; Yugoslavia; Insectivora, Rodentia. Person in charge is Mr. Svjetislav Obratil.

**Zoology Department Collection and Dr. Dulić's Collection**, Zoologiski Zavod, Rooseveltov trg 6, YU-41000 Zagreb. 5000 specimens; 2 holotypes; Yugoslavia; Insectivora, Chiroptera, Rodentia. Person in charge is Prof. Dr. Beatrica Dulić.

#### VENEZUELA

**Instituto de Investigaciones Veterinarias** (IIV), Sección de Rabia, Apartado 70, Maracay 300, Estado Aragua. 75 specimens; Venezuela; Chiroptera. Person in charge is Dr. Javier Moreno.

**Museo de Biología**, Universidad Central de Venezuela (MBUCV), Facultad de Ciencias, Instituto de Zoología Tropical, Apartado 59058, Los Chaguaramos, Caracas. 3000 specimens; 3 holotypes, Venezuela; Marsupialia, Chiroptera, Rodentia. Person in charge is Prof. Roger Pérez Hernández.

**Museo de la Estación Biológica de Rancho Grande** (EBRG), Maracay, Edo. Aragua. 2485 specimens; 2 holotypes; Venezuela; Edentata, Lagomorpha, Rodentia, Carnivora, Artiodactyla. Includes material formerly in the National Museum of Natural History, Washington, D.C., U.S.A. Person in charge is Lic. Gonzalo Medina Padilla.

**Museo de Historia Natural La Salle** (MHNLS), Sociedad de Ciencias Naturales La Salle, Apartado 8150, Caracas 101. 4500 specimens; Ven-

ezuela; Chiroptera. Persons in charge are Andrés Musso and Mercedes Salazar.

#### VIETNAM

**Laboratory of Zoology**, Hanoi University (LZUH), No. 19, Lîthauh Tôn Street, Hanoi. 2200 specimens; 7 holotypes; North Vietnam; Primates, Rodentia. Person in charge is Dao van Tiên.

#### ZIMBABWE

**Blair Research Laboratory** (BRL), Ministry of Health, P.O. Box 8105, Causeway. 2000 specimens; Zimbabwe; Rodentia. Person in charge is D. H. Gordon.

**Museum of Zoology**, University of Zimbabwe, Box MP 167, Mt. Pleasant, Salisburg. 2136 specimens; Zimbabwe; Chiroptera, Rodentia. Person in charge is T. Choate.

**National Museum of Zimbabwe**, P.O. Box 240, Bulawayo. 67,000 specimens; Zimbabwe, Zambia, Mozambique, Botswana; Lagomorpha, Primates, Rodentia, Carnivora, Bovidae. Person in charge is J. R. Peek.

**Queen Victoria Museum** (QVM), Box 8006, Causeway. 8030 specimens; Zimbabwe, Botswana, Mozambique; Chiroptera, Rodentia, Carnivora. Person in charge is Dr. Reay H. N. Smithers.

**Umtali Museum**, Victory Avenue, Umtali. 200 specimens; Zimbabwe. Person in charge is Mr. L. Mutisi.

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